## Amendments to the Claims:

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This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (ORIGINAL) A fluid flow control system for precisely controlling fluid flow from a source of fluid under pressure,
- a flow path for coupling said source of fluid to a point of utilization,
  - a valve in said flow path,
  - a flow restrictor in said flow path,
- a pressure transducer connected across said flow restrictor for measuring the pressure differential thereacross and producing a signal proportional to said pressure differential, and
- a controller connected to receive said signal and pulse said valve at a frequency to obtain a preset target value of pressure across said flow restrictor.
- 2. (ORIGINAL) A system of mixing two or more fluid streams comprising in combination the fluid flow control system defined in claim 1, coupled to a mixer which is also coupled to a source of a second fluid.
- 3. (CURRENTLY AMENDED) The system defined in claim 1 including means for inputting a flow modifying signal to said controller or for modifying the control said signal due to a change

in the relationship between the pressure differential across the transducer versus the flow.

- 4. (ORIGINAL) The system defined in claim 2 including means for inputting a flow modifying signal to said controller or for modifying the control signal due to a change in the relationship between the pressure differential across the transducer versus the flow.
- 5. (ORIGINAL) A fluid flow control system for mixing fluids from two or more sources of fluid under pressure,
- a first flow path for coupling one of said sources of a first fluid to a point of utilization,
  - a first valve in said first flow path,

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- a first flow restrictor in said flow path downstream of said valve.
- a first pressure transducer connected across said first flow restrictor for measuring the pressure differential thereacross and producing a signal proportional to said pressure differential,
- a controller connected to receive said signal and pulse said first valve at a frequency to obtain a preset target value of fluid pressure across said flow restrictor,
- a first flow path coupling said flow restrictor to a fluid mixer,

said mixer coupled to a second fluid, the flow rate of which is controlled by a second flow control means.

means coupling said first flow path to said mixer, said mixer constituting said point of utilization.

- 6. (ORIGINAL) The fluid flow control system defined in claim 3 wherein said second source includes a second flow path having a second valve, a second flow restrictor and a second pressure transducer controlling a second fluid, all connected and operating as in said first flow path, and means coupling said second flow path to said mixer.
- 7. (ORIGINAL) The system defined in claim 5 including means for inputting a flow modifying signal to said controller.
- 8. (ORIGINAL) The system defined in claim 6 including means for inputting a flow modifying signal to said controller.
- 9. (NEW) A fluid flow control system for controlling fluid flow from a source of fluid under pressure,
- a flow path for coupling said source of fluid to a point of utilization,
  - a valve in said flow path,

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a flow restrictor in said flow path,

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a pressure transducer connected across said flow restrictor for measuring the pressure differential thereacross and producing a control signal proportional to said pressure differential, and

a controller connected to receive said control signal and operate said valve to obtain a preset target value of pressure across said flow restrictor.

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10. (NEW) A system of mixing two or more fluid streams comprising in combination the fluid flow control system defined in claim 9, coupled to a mixer which is also coupled to a source of a second fluid.